

The microstructure study of CJP products

Kashapov L., Kashapov R., Kashapov N., Farrahov R.
Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

© Published under licence by IOP Publishing Ltd. The aim of work is research the microstructure of the products obtained in the ProJet 160 by ColorJet Printing technology. An IR spectrometer and a scanning electron microscope were used to analyze the structure. Analysis of IR spectra showed that when the gluing component was added, redistribution of the intensities of the absorption bands in the 3600-3500 cm⁻¹ and 1130-1080 cm⁻¹ region and the appearance of new lanes in the 3403 cm⁻¹ and 1685 cm⁻¹ region were observed. This indicates the phase transformation of the gypsum component under the action of water.

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